

SEQUENCE LISTING

<110> Panganiban, Antonito
Callahan, Mark A.

<120> Method of Identifying Modulators of HIV-1 VPU and GAG
Interaction with U Binding Protein (UBP)

<130> 960296.95335

<140> 09/301,978

<141> 1999-04-29

<150> 60/083,567

<151> 1998-04-30

<160> 29

<170> PatentIn Ver. 2.1

<210> 1

<211> 2221

<212> DNA

<213> Homo sapiens

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<221> unsure

<222> (1514)

<223> n = any nucleotide.

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<221> unsure

<222> (2066)

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<400> 1

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 <212> PRT
 <213> Homo sapiens

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 Glu Val Ala Ile Gln Cys Leu Glu Thr Ala Phe Gly Val Thr Val Glu
 35 40 45
 Asp Ser Asp Leu Ala Leu Pro Gln Thr Leu Pro Glu Ile Phe Glu Ala
 50 55 60
 Ala Ala Thr Gly Lys Glu Met Pro Gln Asp Leu Arg Ser Pro Ala Arg
 65 70 75 80

Thr Pro Pro Ser Glu Glu Asp Ser Ala Glu Ala Glu Arg Leu Lys Thr
 85 90 95
 Glu Gly Asn Glu Gln Met Lys Val Glu Asn Phe Glu Ala Ala Val His
 100 105 110
 Phe Tyr Gly Lys Ala Ile Glu Leu Asn Pro Ala Asn Ala Val Tyr Phe
 115 120 125
 Cys Asn Arg Ala Ala Ala Tyr Ser Lys Leu Gly Asn Tyr Ala Gly Ala
 130 135 140
 Val Gln Asp Cys Glu Arg Ala Ile Cys Ile Asp Pro Ala Tyr Ser Lys
 145 150 155 160
 Ala Tyr Gly Arg Met Gly Leu Ala Leu Ser Ser Leu Asn Lys His Val
 165 170 175
 Glu Ala Val Ala Tyr Tyr Lys Lys Ala Leu Glu Leu Asp Pro Asp Asn
 180 185 190
 Glu Thr Tyr Lys Ser Asn Leu Lys Ile Ala Glu Leu Lys Leu Arg Glu
 195 200 205
 Ala Pro Ser Pro Thr Gly Gly Val Gly Ser Phe Asp Ile Ala Gly Leu
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 Leu Asn Asn Pro Gly Phe Met Ser Met Ala Ser Asn Leu Met Asn Asn
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 Pro Gln Ile Gln Gln Leu Met Ser Gly Met Ile Ser Gly Gly Asn Asn
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 Pro Leu Gly Thr Pro Gly Thr Ser Pro Ser Gln Asn Asp Leu Ala Ser
 260 265 270
 Leu Ile Gln Ala Gly Gln Gln Phe Ala Gln Gln Met Gln Gln Gln Asn
 275 280 285
 Pro Glu Leu Ile Glu Gln Leu Arg Ser Gln Ser Gly Val Gly Arg Pro
 290 295 300
 Ala Pro Ala Thr Thr Thr Ser Arg Ser Asp Ala Ala Cys Ser Arg Cys
 305 310 315 320
 Asp Arg Val Leu Pro Trp Pro Thr Arg Arg Lys Pro Ser Gly Cys Leu
 325 330 335

Pro Leu Pro Pro Val Gly Leu Pro Glu Arg Gly Glu Glu Arg Asp Leu
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<212> DNA
<213> Artificial Sequence

<220>
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Primer

<400> 3 23
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<210> 4
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<220>
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Primer

<400> 4 21
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<210> 5
<211> 31
<212> DNA
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<220>
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<210> 6
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<212> DNA
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<400> 6
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<210> 7
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<210> 8
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<210> 9
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Primer

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<210> 10
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<400> 10
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<210> 11
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Consensus Sequence

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<222> (5)
<223> Can be an Alanine as well.

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<222> (26)

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<223> Can be any large hydrophobic amino acid.

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Xaa Xaa

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<212> PRT

<213> Human Immunodeficiency Virus Type 1

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<221> PEPTIDE

<222> (1)..(34)

<223> TPR1

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Asp Leu

<210> 13

<211> 34

<212> PRT

<213> C. elegans

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<222> (1)..(34)

<223> TPR1

<400> 13

Val Ser Gln Asn Gln Ala Thr Ala Glu Gln Ala Glu Ala Leu Glu Val
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Ala Ile Gln Cys Leu Glu His Ser Phe Gly Leu Asp Asp Ala Ser Tyr
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Ala Phe

<210> 14

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<213> S. cerevisiae

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<222> (1)..(34)

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<400> 14

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Ala Met Asp Cys Ile Ser Glu Ala Phe Gly Phe Glu Arg Glu Ala Val
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Ser Gly

<210> 15
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 <213> Human Immunodeficiency Virus Type 1

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 <223> TPR2

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 Ala Val His Phe Tyr Gly Lys Ala Ile Glu Leu Asn Pro Ala Asn Ala
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Val Tyr

<210> 16
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 <213> C. elegans

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<400> 16
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 Ala Val Gln Lys Tyr Asn Ala Ala Ile Lys Leu Asn Arg Asp Pro Val
 20 25 30

Tyr

<210> 17

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 Ala Ile Asn Lys Tyr Thr Glu Ala Ile Lys Val Leu Pro Thr Asn Ala
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 Ile Tyr

<210> 18
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 Ala Ile Lys Phe Tyr Ser Gln Ala Ile Glu Leu Asn Pro Ser Asn Ala
 20 25 30
 Ile Tyr

<210> 19
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<222> (1)..(34)

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Ala Ile Lys Lys Tyr Ala Glu Val Leu Arg Tyr Val Asp Ser Ser Lys
20 25 30

Ala Val

<210> 20

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<223> TPR3

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Ala Val Gln Asp Cys Glu Arg Ala Ile Cys Ile Asp Pro Ala Tyr Ser
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Lys Ala

<210> 21

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<213> Homo sapiens

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Ala Ile Gln Asp Cys Arg Thr Ala Leu Ala Leu Asp Pro Ser Tyr Ser
 20 25 30

Lys Ala

<210> 22
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Arg Gly

<210> 23
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Ala Leu Gly Asp Ala Thr Arg Ala Ile Glu Leu Asp Lys Lys Tyr Ile
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Lys Gly

<210> 24
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Lys Ala

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 Ala Val Ala Tyr Tyr Lys Lys Ala Leu Glu Leu Asp Pro Asp Asn Glu
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Thr Tyr

<210> 26
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<222> (1)..(34)

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Ala Ala Glu Ala Tyr Lys Lys Ala Leu Glu Leu Glu Pro Asn Gln Glu
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Ser Tyr

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<223> TPR4

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Ala Leu Glu Ala Tyr Lys Lys Val Leu Asp Ile Glu Gly Asp Asn Ala
20 25 30

Thr Glu

<210> 28

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 1 5 10 15

Ala Leu Arg Asp Tyr Glu Thr Val Val Lys Val Lys Pro His Asp Lys
 20 25 30

Asp Ala

<210> 29

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<223> TPR3

<400> 29

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 1 5 10 15

Ala Leu Ala Asp Leu Lys Lys Ala Gln Gly Ile Ala Pro Glu Asp Lys
 20 25 30

Ala Ile